

Grants Mining District Status Update & Upcoming Events

Charge to
Tronox NAUM Account
A6KZ TR2 Fund
And
San Mateo Creek Basin
A6K6 T Fund
50%-50%

Objectives

- Update management on interactions with stakeholders
- Update on Specific Mines
- Planned Community Meetings
- Identify meetings which DD wishes to participate
- Ground Water Phase II Update

Tronox NAUM – Navajo Outreach

Done in Coordination with Region 9 CIC

- July Eastern Agency Fair
- September Navajo Nation Fair

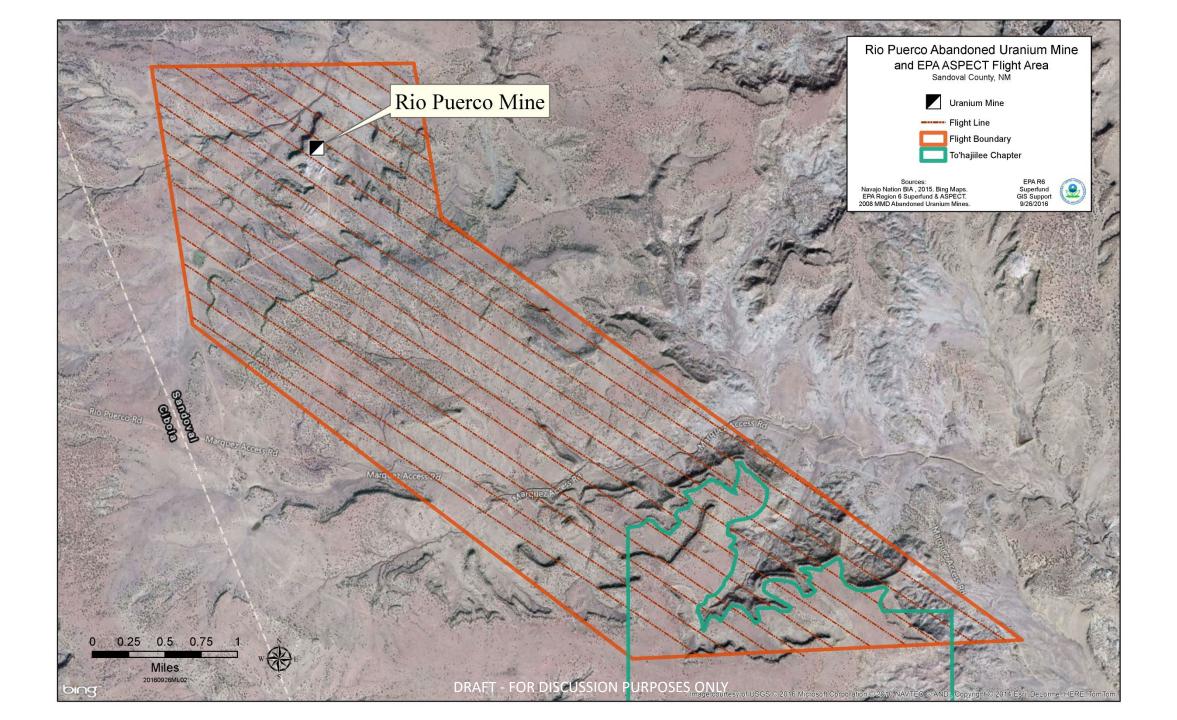
MONTH? – Baca Prewitt Chapter Meeting

Industry Days

- START and ERRS-like Contract
- Region 9 Placing Contract
- Flagstaff, AZ and Crownpoint, NM
- SOW Presentation and Q&A Session for START and ERRS-like Contracts
- Site Visits in Cove Watershed (R9) and Ambrosia Lake (R6)

Rio Puerco

- ASPECT Flight October 5 & 6 (Weather Day October 7)
- Navajo Chapter Meeting Outreach September 27
- Requested to attend future Chapter Meeting with final data

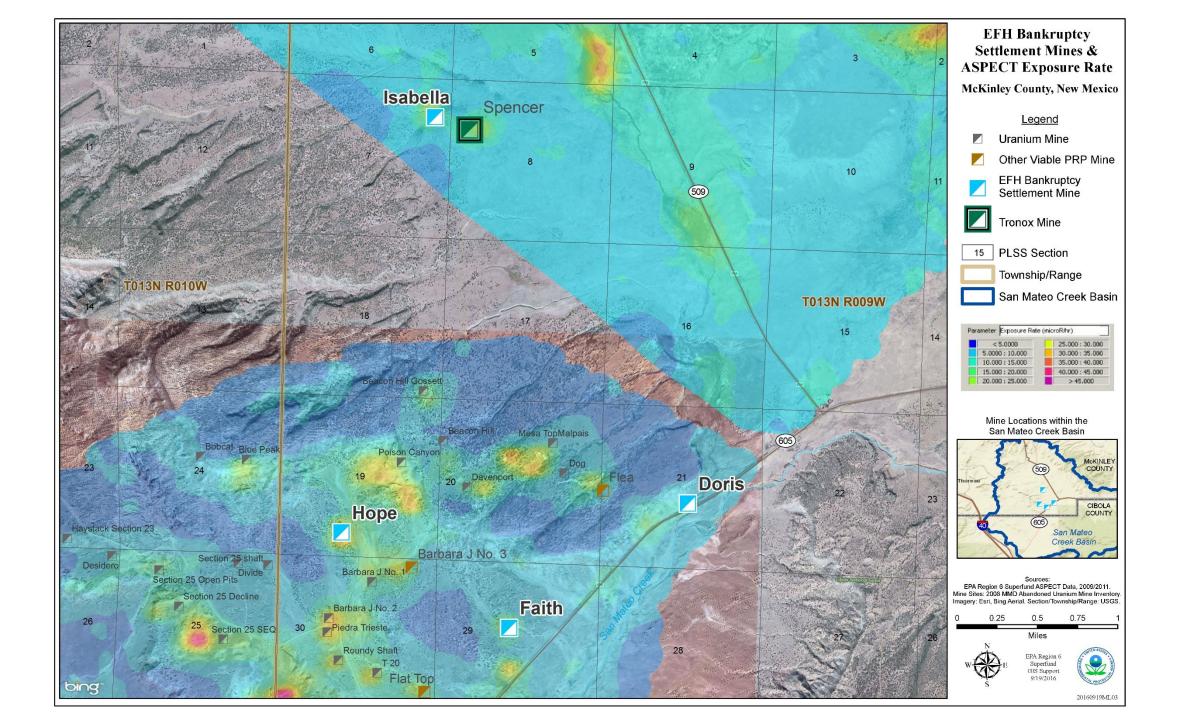


Energy Future Holdings Bankruptcy

\$4M Received in August and \$1M pending bankruptcy plan confirmation

Doris, Hope, Faith and Isabella

Strategy Development



Community Meetings

- November 15 Ambrosia Lake Outreach Center
 - Phase 1 Groundwater Report
 - Five Year Plan Update
 - Removal Update (Availability Session)
 - Homestake (Availability Session
- November 17 Cibola County Building
 - Homestake
 - Phase 1 Groundwater Report
 - Five Year Plan Update
 - Removal Update (Availability Session)

Information Sharing Meetings

- October 19 EPA\NMED\MMD Meeting
 - Phase 1 GW Report Update, EFH Settlement, Removal Update
- October 20 Tronox Joint Agency Meeting
 - FY17 Planning, Phase 1 GW Report, Project Updates
- October 21 EPA\Rio Algom Meeting
 - License Amendment Process, State Discharge Permits, Phase 1 GW Report
- November 9 & 10 AUM Workgroup Meeting (Denver)
 - Region 6 Technical Presentation on Removal Assessment Protocol
- December TBD Grants Mining District Partnership Meeting
- TBD Laguna Council
 - Phase 1 Ground Water Report

NM Office of State Engineer Coordination

- Responsibilities Include:
 - Licensing Well Drillers
 - Issuing licenses to drill wells
 - Continuing Education of public and well drillers
- NMED Health Advisory
- Additional Coordination Needed
- November 16 EPA\NMED\OSE Meeting Proposed



THE NEW MEXICO ENVIRONMENT DEPARTMENT



HEALTH ADVISORY FOR PRIVATE WELLS WITHIN THE SAN MATEO CREEK BASIN

<u>Advisory</u>

The New Mexico Environment Department ("NMED") cautions all present and future owners and users of private wells within the San Mateo Creek basin (see Figure 1) that your well water could contain some contaminant concentrations in excess of federal drinking water standards.

Possible contaminants that may occur in concentrations exceeding federal drinking water standards include chloride, gross alpha, lead, manganese, nitrate, pH, radium₂₂₆+radium₂₂₈, selenium, sulfate, total dissolved solids ("TDS"), and uranium; additional contaminants that have been detected for which federal drinking water standards have not been established include, iron, molybdenum, thorium₂₃₀, and vanadium. The sources of these contaminants in part may include naturally-occurring ore deposits within this portion of the "Grants uranium belt," as well as former uranium mines and mills within the basin that historically accessed these deposits.

San Mateo Creek Basin

Consultation Letters being drafted

■ 7%-16% of Navajo land within the basin boundary

Coordination Call with R9 – October 13

■ HQ Request – R6\R9\HQ meeting on Communication Strategy

SAN MATEO CREEK BASIN GROUND WATER INVESTIGATION UPDATE

October 5, 2016

MULTI-PHASED INVESTIGATION

- Phase 1 Alluvial Ground Water
 - Final Phase 1 Report completed
- Phase 2 Bedrock and Alluvial Ground Water
 - Primary Focus NAUM Concerns (Tronox Mines Impacts)
 - Data collection completed 2015/2016
- Phase 3 Conceptual Site Model development
 - Project scoping ongoing



Saturated Alluvial Sediments



Dakota Sandstone Cuttings

PHASE 1 REPORT ROLL-OUT

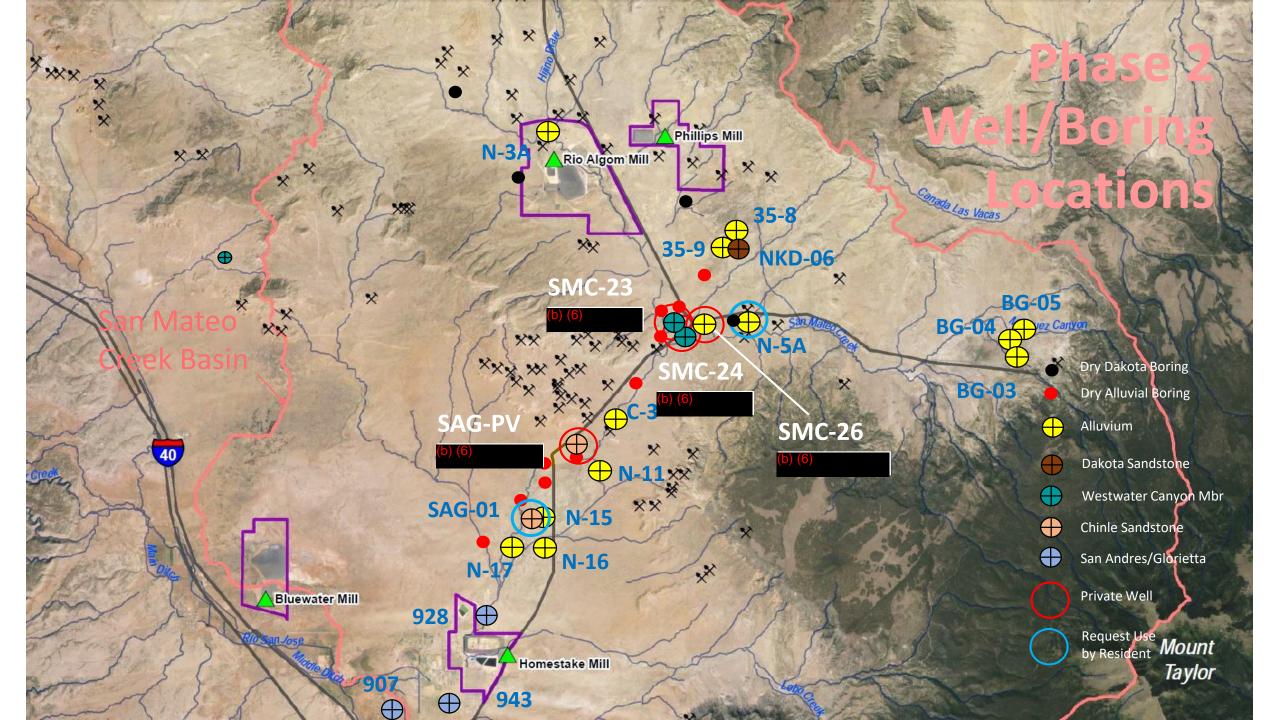
- September 1 Federal/State Partners
- September 19 Key Stakeholders
 - Tribes
 - BVDA
 - MASE
 - Industry
- Early October Website
- October 20 Tronox Quarterly Presentation
 - Navajo, R9, State
- Week of November 14 Public Meetings
- Early 2017 Laguna Pueblo Senior Leadership

OVERVIEW OF PHASE 2 INVESTIGATION

- Characterize BEDROCK ground water quality
 - Drilled/cored 6 bore holes
 - Installed 2 new wells
 - Sampled the 2 new wells and 3 existing wells
- Fill data gaps for ALLUVIAL ground water study
 - Drilled 16 bore holes
 - Installed 5 new monitoring wells
 - Sampled a total of 12 monitoring wells
- Sample PRIVATE wells
 - 4 wells sampled
 - At request of well owner or EPA



21 new and existing wells sampled in 2015 and 2016

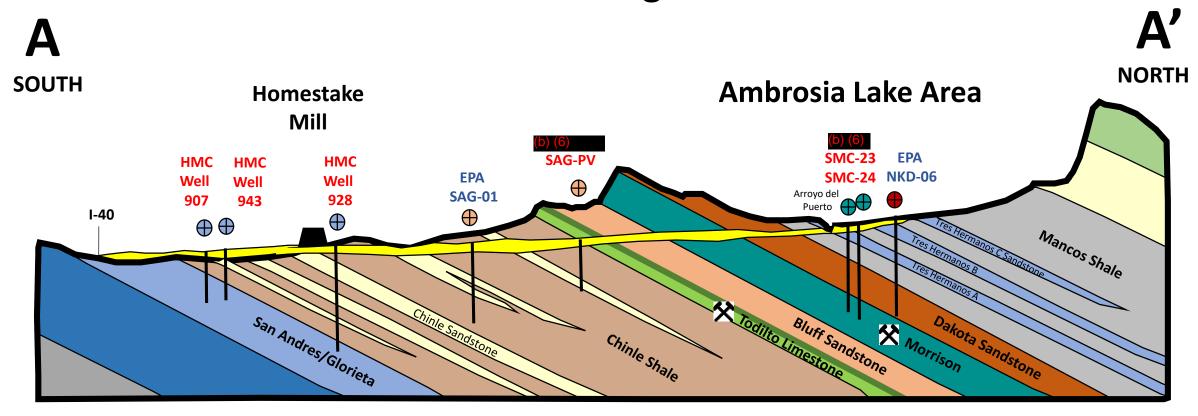






BEDROCK AQUIFER WELLS SAMPLED

Generalized Cross Section Through San Mateo Creek Basin





PRIVATE WELL SAMPLE RESULTS

Analyte	Federal MCL	NM Drinking Water Standard	SMC-23 (b) (6)	SMC-24 (b) (6)	SMC-26 (b) (6)	SAG-PV (b) (6)
Gross Alpha	15		11.9	15.8	113	18
Uranium	0.030	0.030	0.013	0.029	0.200	0.001
Selenium	0.050	0.050	0.038	0.017	0.022	0.001
Nitrate as N	10	10	14	17	7.3	20 ND
		Other Standards for Domestic Water Supply - NM				
Chloride		250	59	59	17	24,000
Iron		1	0.013 ND	0.013 ND	0.013 ND	0.020
Manganese		0.200	0.001 ND	0.005	0.003	2.5
Sulfate		600	2,500	2,400	130	1,100
TDS		1,000	3,800	3,700	590	26,000
		NM Standards for Irrigation Use				
Aluminum		5	0.023	0.019 ND	0.019 ND	0.019 ND

EPA Monitoring Well Requested for Private Use

SAG-01 EPA	N-5A EPA		
101	142		
0.044	0.250		
0.015	0.004		
0.440	1.6		
50	24		
15	0.027 ND		
0.350	0.013		
610	420		
2,100	980		
45	0.020		

ASSESSMENT OF RESULTS

- Four Private Wells
 - Not suitable for drinking
 - Not recommended for other Domestic Water Supply uses
- Two EPA Monitoring Wells
 - Not suitable for drinking
 - SAG-01 well not recommended for other Domestic Water Supply or Irrigation uses

NOTIFICATION OF RESULTS TO WELL OWNER

- Analytical Results
 - Prepare letter and summary of results
 - Include well location map and ATSDR Fact Sheets on Uranium and Nitrate
 - Hand deliver letters and discuss results

SCHEDULE FOR PHASE 2 GROUND WATER REPORT

- Preparation of Report by START Contractor Ongoing
 - Interpretation of analytical results
 - Preparation of maps, cross-sections, tables **
- Draft report October 2016
- Target Completion by January/February 2017
 - Includes 30-day review period of draft report by NMED

STATUS OF PHASE 3

Conceptual Site Model Development

- Requested proposals Summer 2016
 - UT Bureau of Economic Geology (BEG)
 - USGS
- Plan to fund BEG for initial review of information Fall, 2016
- Seek updated proposal from BEG Early 2017
- Target completion 2018



Dakota Sandstone



